

SEQUENCE LISTING

<110> President and Fellows of Harvard College , et al.

<120> MODULATION OF IMMUNE SYSTEM FUNCTION BY
MODULATION OF POLYPEPTIDE ARGININE METHYLTRANSFERASES

<130> HUI-054PC

<140> 60/531,482

<141> 2003-12-18

<160> 24

<170> FastSEQ for Windows Version 4.0

<210> 1

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<212> DNA

<213> Mus musculus

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 245 250 255
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 35 40 45
 Ser Pro Ser Val Thr Ser Thr Leu Pro Leu Pro Thr Ala His Ser Ala
 50 55 60
 Leu Pro Ala Ala Cys His Asp Leu Gln Thr Ser Thr Pro Gly Ile Ser
 65 70 75 80
 Ala Val Pro Ser Ala Asn His Pro Pro Ser Tyr Gly Gly Ala Val Asp
 85 90 95
 Ser Gly Pro Ser Gly Tyr Phe Leu Ser Ser Gly Asn Thr Arg Pro Asn
 100 105 110
 Gly Ala Pro Thr Leu Glu Ser Pro Arg Ile Glu Ile Thr Ser Tyr Leu
 115 120 125
 Gly Leu His His Gly Ser Gly Gln Phe Phe His Asp Val Glu Val Glu
 130 135 140
 Asp Val Leu Pro Ser Cys Lys Arg Ser Pro Ser Thr Ala Thr Leu His
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 Leu Pro Ser Leu Glu Ala Tyr Arg Asp Pro Ser Cys Leu Ser Pro Ala
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 Arg Ser Leu Gly Ala Cys His Leu Leu Gly Ser Pro Arg His Ser Pro
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 Asp Ser Lys Val Ile Phe Val Glu Lys Ala Pro Asp Gly His His Val
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35 40 45
His Lys Ala Ile Ser Ser Pro Ser Gly Leu Ala Tyr Pro Asp Asp Val
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Ser	Cys	Ala	Glu	Ala	Leu	Val	Ala	Pro	Leu	Pro	Ala	Ala	Ser	Pro	Gln	
					260				265					270		
Arg	Ser	Arg	Ser	Pro	Ser	Pro	Gln	Pro	Ser	Pro	His	Val	Ala	Pro	Gln	
				275					280					285		
Asp	Asp	Ser	Ile	Pro	Ala	Gly	Tyr	Pro	Pro	Thr	Ala	Gly	Ser	Ala	Val	
				290					295					300		
Leu	Met	Asp	Ala	Leu	Asn	Thr	Leu	Ala	Thr	Asp	Ser	Pro	Cys	Gly	Ile	
				305					310					315	320	
Pro	Ser	Lys	Ile	Trp	Lys	Thr	Ser	Pro	Asp	Pro	Thr	Pro	Val	Ser	Thr	
					325				330					335		
Ala	Pro	Ser	Lys	Ala	Gly	Leu	Ala	Arg	His	Ile	Tyr	Pro	Thr	Val	Glu	
					340				345					350		
Phe	Leu	Gly	Pro	Cys	Glu	Gln	Glu	Glu	Arg	Arg	Asn	Ser	Ala	Pro	Glu	
				355					360					365		
Ser	Ile	Ile	Leu	Leu	Val	Pro	Pro	Thr	Trp	Pro	Lys	Gln	Leu	Val	Pro	Ala
				370					375					380		
Ile	Pro	Ile	Cys	Ser	Ile	Pro	Val	Thr	Ala	Ser	Leu	Pro	Pro	Leu	Glu	
				385					390					395	400	
Trp	Pro	Leu	Ser	Asn	Gln	Ser	Gly	Ser	Tyr	Glu	Leu	Arg	Ile	Glu	Val	
					405				410					415		
Gln	Pro	Lys	Pro	His	His	Arg	Ala	His	Tyr	Glu	Thr	Glu	Gly	Ser	Arg	
					420				425					430		
Gly	Ala	Val	Lys	Ala	Pro	Thr	Gly	Gly	His	Pro	Val	Val	Gln	Leu	His	
				435					440					445		
Gly	Tyr	Met	Glu	Asn	Lys	Pro	Leu	Gly	Leu	Gln	Ile	Phe	Ile	Gly	Thr	
				450					455					460		
Ala	Asp	Glu	Arg	Ile	Leu	Lys	Pro	His	Ala	Phe	Tyr	Gln	Val	His	Arg	
					465				470					475	480	
Ile	Thr	Gly	Lys	Thr	Val	Thr	Thr	Thr	Ser	Tyr	Glu	Lys	Ile	Val	Gly	
					485				490					495		
Asn	Thr	Lys	Val	Leu	Glu	Ile	Pro	Leu	Glu	Pro	Lys	Asn	Asn	Met	Arg	
					500				505					510		
Ala	Thr	Ile	Asp	Cys	Ala	Gly	Ile	Leu	Lys	Leu	Arg	Asn	Ala	Asp	Ile	
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Glu	Leu	Arg	Lys	Gly	Glu	Thr	Asp	Ile	Gly	Arg	Lys	Asn	Thr	Arg	Val	
				530					535					540		

Arg Leu Val Phe Arg Val His Val Pro Glu Pro Ser Gly Arg Ile Val
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 Ser Leu Gln Ala Ala Ser Asn Pro Ile Glu Cys Ser Gln Arg Ser Ala
 565 570 575
 His Glu Leu Pro Met Val Glu Arg Gln Asp Met Asp Ser Cys Leu Val
 580 585 590
 Tyr Gly Gly Gln Gln Met Ile Leu Thr Gly Gln Asn Phe Thr Ala Glu
 595 600 605
 Ser Lys Val Val Phe Met Glu Lys Thr Thr Asp Gly Gln Gln Ile Trp
 610 615 620
 Glu Met Glu Ala Thr Val Asp Lys Asp Lys Ser Gln Pro Asn Met Leu
 625 630 635 640
 Phe Val Glu Ile Pro Glu Tyr Arg Asn Lys His Ile Arg Val Pro Val
 645 650 655
 Lys Val Asn Phe Tyr Val Ile Asn Gly Lys Arg Lys Arg Ser Gln Pro
 660 665 670
 Gln His Phe Thr Tyr His Pro Val Pro Ala Ile Lys Thr Glu Pro Ser
 675 680 685
 Asp Glu Tyr Glu Pro Ser Leu Ile Cys Ser Pro Ala His Gly Gly Leu
 690 695 700
 Gly Ser Gln Pro Tyr Tyr Pro Gln His Pro Met Leu Ala Glu Ser Pro
 705 710 715 720
 Ser Cys Leu Val Ala Thr Met Ala Pro Cys Gln Gln Phe Arg Ser Gly
 725 730 735
 Leu Ser Ser Pro Asp Ala Arg Tyr Gln Gln Gln Ser Pro Ala Ala Ala
 740 745 750
 Leu Tyr Gln Arg Ser Lys Ser Leu Ser Pro Gly Leu Leu Gly Tyr Gln
 755 760 765
 Gln Pro Ser Leu Leu Ala Ala Pro Leu Gly Leu Ala Asp Ala His Arg
 770 775 780
 Ser Val Leu Val His Ala Gly Ser Gln Gly Gln Gly Gln Gly Ser Thr
 785 790 795 800
 Leu Arg His Thr Ser Ser Ala Ser Gln Gln Ala Ser Pro Val Ile His
 805 810 815
 Tyr Ser Pro Thr Asn Gln Gln Leu Arg Gly Gly His Gln Glu Phe
 820 825 830
 Gln His Ile Met Tyr Cys Glu Asn Phe Gly Pro Ser Ser Ala Arg Pro
 835 840 845
 Gly Pro Pro Pro Ile Asn Gln Gly Gln Arg Leu Ser Pro Gly Ala Tyr
 850 855 860
 Pro Thr Val Ile Gln Gln Gln Thr Ala Pro Ser Gln Arg Ala Ala Lys
 865 870 875 880
 Asn Gly Pro Ser Asp Gln Lys Glu Ala Leu Pro Thr Gly Val Thr Val
 885 890 895
 Lys Gln Glu Gln Asn Leu Asp Gln Thr Tyr Leu Asp Asp Ala Ala Thr
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 Ser Glu Ser Trp Val Gly Thr Glu Arg Tyr Ile Glu Arg Lys Phe Trp
 915 920 925
 Lys Lys Thr Leu Val Gln Pro Gly Leu Leu Pro Ser Phe Leu Leu Leu
 930 935 940
 Gly Ser Leu Ser Ala Gly Pro Arg Ser Gln Thr Pro Ser Glu Arg Lys
 945 950 955 960
 Pro Ile Glu Glu Asp Val Pro Leu Ser Cys Ser Gln Ile Ala Trp Cys
 965 970 975
 Cys Gln His Pro Leu Gly Thr Cys Pro Val Leu Pro Gly Pro Leu Ala
 980 985 990
 Val Glu Trp Trp Glu Gly Gln Leu Gly Arg Gly Leu Glu Pro Ile Pro
 995 1000 1005
 Trp Ala Pro Asp Ser Ala Gly Ser Leu His Glu Val Asp Ser Val Gly
 1010 1015 1020

Leu Ala Gly Val Val Gly Met Val Leu Leu Thr Leu Met His His Phe
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 <213> Mus musculus

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 agatgattgt gcatccattt acatctttaa ttagatcca cctccatcta cttaaccac 180
 accactttgc ttaccacatc atggattacc gtctcaact tctgtttgt caccatcg 240
 tcagctccaa agtcacaaaa actatgaagg aacttgtgag attcctgaat ctaaatata 300
 cccatttaggt ggtcccaaac ctttgagtg cccaaatgtc caatttacat ctatctctcc 360
 taactgtcaa caagaattag atgcacatga agatgaccta cagataaatg acccagaacg 420
 ggaatttttg gaaaggcctt cttagagatca tcttcatctt ccttggagc catcctaccc 480
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 tgcattttct tttcacatgtt ttagatgtat gtggactcag agttgaatga 600
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 <213> Mus musculus

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 35 40 45
 Val Asp Pro Pro Pro Ser Thr Leu Thr Pro Leu Cys Leu Pro His
 50 55 60
 His Gly Leu Pro Ser His Ser Ser Val Leu Ser Pro Ser Phe Gln Leu
 65 70 75 80
 Gln Ser His Lys Asn Tyr Glu Gly Thr Cys Glu Ile Pro Glu Ser Lys
 85 90 95
 Tyr Ser Pro Leu Gly Gly Pro Lys Pro Phe Glu Cys Pro Ser Ile Gln
 100 105 110
 Phe Thr Ser Ile Ser Pro Asn Cys Gln Gln Glu Leu Asp Ala His Glu
 115 120 125
 Asp Asp Leu Gln Ile Asn Asp Pro Glu Arg Glu Phe Leu Glu Arg Pro
 130 135 140
 Ser Arg Asp His Leu Tyr Leu Pro Leu Glu Pro Ser Tyr Arg Glu Ser
 145 150 155 160
 Ser Leu Ser Pro Ser Pro Ala Ser Ser Ile Ser Ser Arg Ser Trp Phe
 165 170 175
 Ser Asp Ala Ser Ser Cys Glu Ser Leu Ser His Ile Tyr Asp Asp Val
 180 185 190
 Asp Ser Glu Leu Asn Glu Ala Ala Ala Arg Phe Thr Leu Gly Ser Pro
 195 200 205
 Leu Thr Ser Pro Gly Gly Ser Pro Gly Gly Cys Pro Gly Glu Glu Ser
 210 215 220
 Trp His Gln Gln Tyr Gly Ser Gly His Ser Leu Ser Pro Arg Gln Ser
 225 230 235 240
 Pro Cys His Ser Pro Arg Ser Ser Ile Thr Asp Glu Asn Trp Leu Ser
 245 250 255
 Pro Arg Pro Ala Ser Gly Pro Ser Ser Arg Pro Thr Ser Pro Cys Gly
 260 265 270
 Lys Arg Arg His Ser Ser Ala Glu Val Cys Tyr Ala Gly Ser Leu Ser
 275 280 285
 Pro His His Ser Pro Val Pro Ser Pro Gly His Ser Pro Arg Gly Ser
 290 295 300

Val Thr Glu Asp Thr Trp Leu Thr Ala Pro Val His Thr Gly Ser Gly
 305 310 315 320
 Leu Ser Pro Ala Pro Phe Pro Phe Gln Tyr Cys Val Glu Thr Asp Ile
 325 330 335
 Pro Leu Lys Thr Arg Lys Thr Ser Glu Asp Gln Ala Ala Ile Leu Pro
 340 345 350
 Gly Lys Leu Glu Ile Cys Ser Asp Asp Gln Gly Asn Leu Ser Pro Ser
 355 360 365
 Arg Glu Thr Ser Val Asp Asp Gly Leu Gly Ser Gln Tyr Pro Leu Lys
 370 375 380
 Lys Asp Ser Ser Gly Asp Gln Phe Leu Ser Val Pro Ser Pro Phe Thr
 385 390 395 400
 Trp Ser Lys Pro Lys Pro Gly His Thr Pro Ile Phe Arg Thr Ser Ser
 405 410 415
 Leu Pro Pro Leu Asp Trp Pro Leu Pro Thr His Phe Gly Gln Cys Glu
 420 425 430
 Leu Lys Ile Glu Val Gln Pro Lys Thr His His Arg Ala His Tyr Glu
 435 440 445
 Thr Glu Gly Ser Arg Gly Ala Val Lys Ala Ser Thr Gly Gly His Pro
 450 455 460
 Val Val Lys Leu Leu Gly Tyr Ser Glu Lys Pro Ile Asn Leu Gln Met
 465 470 475 480
 Phe Ile Gly Thr Ala Asp Asp Arg Tyr Leu Arg Pro His Ala Phe Tyr
 485 490 495
 Gln Val His Arg Ile Thr Gly Lys Thr Val Ala Thr Ala Ser Gln Glu
 500 505 510
 Ile Ile Ile Ala Ser Thr Lys Val Leu Glu Ile Pro Leu Leu Pro Glu
 515 520 525
 Asn Asn Met Ser Ala Ser Ile Asp Cys Ala Gly Ile Leu Lys Leu Arg
 530 535 540
 Asn Ser Asp Ile Glu Leu Arg Lys Gly Glu Thr Asp Ile Gly Arg Lys
 545 550 555 560
 Asn Thr Arg Val Arg Leu Val Phe Arg Val His Ile Pro Gln Pro Ser
 565 570 575
 Gly Lys Val Leu Ser Leu Gln Ile Ala Ser Ile Pro Val Glu Cys Ser
 580 585 590
 Gln Arg Ser Ala Gln Glu Leu Pro His Ile Glu Lys Tyr Ser Ile Asn
 595 600 605
 Ser Cys Ser Val Asn Gly Gly His Glu Met Ile Val Thr Gly Ser Asn
 610 615 620
 Phe Leu Pro Glu Ser Lys Ile Ile Phe Leu Glu Lys Gly Gln Asp Gly
 625 630 635 640
 Gly Pro His Trp Glu Val Glu Gly Lys Ile Ile Arg Glu Lys Cys Gln
 645 650 655
 Gly Ala His Ile Val Leu Glu Val Pro Pro Tyr His Asn Pro Ala Val
 660 665 670
 Thr Ser Ala Val Gln Val His Phe Tyr Leu Cys Asn Gly Lys Arg Lys
 675 680 685
 Lys Ser Gln Ser Gln Arg Phe Thr Tyr Thr Pro Val Leu Met Lys Gln
 690 695 700
 Glu Gln Arg Glu Asp Thr Asp Leu Pro Ser Val Pro Ser Leu Pro Val
 705 710 715 720
 Pro His Ser Ala Gln Ala Gln Arg Pro Ser Ser Glu Thr Gly His Pro
 725 730 735
 His Asp Arg Ala Met Ser Ala Pro Gly Gly Leu Leu Cys Gln Val Gln
 740 745 750
 Pro Ala Tyr Thr Ser Met Val Ala Ser Thr His Leu Pro Gln Leu Gln
 755 760 765
 Cys Arg Asp Glu Gly Ala Gly Lys Glu Gln His Ile Ala Thr Ser Ser
 770 775 780

Val Met His Gln Pro Phe Gln Val Thr Pro Thr Ser Pro Ile Gly Ser
 785 790 795 800
 Ser Tyr Gln Ser Ile Gln Thr Ser Met Tyr Asn Gly Pro Thr Cys Leu
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 820 825 830
 Gln Asp Ala Ala Leu Ser Ser Leu Val Asn Leu Gly Cys Gln Pro Leu
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 Ser Pro Ile Pro Phe His Ser Ser Asn Ser Asp Ala Thr Gly His Leu
 850 855 860
 Leu Ala His Ser Pro His Ser Val Gln Thr Pro Pro His Leu Gln Ser
 865 870 875 880
 Met Gly Tyr His Cys Ser Asn Ala Gly Gln Thr Ala Leu Ser Ser Pro
 885 890 895
 Val Ala Asp Gln Ile Thr Gly Gln Pro Ser Ser His Leu Gln Pro Ile
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 Thr Tyr Cys Pro Ser His Pro Gly Ser Ala Thr Ala Ala Ser Pro Ala
 915 920 925
 Ala Ser His Pro Leu Ala Ser Ser Pro Ile Ser Gly Pro Ser Ser Pro
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 Gln Leu Gln Pro Met Pro Tyr Gln Ser Pro Ser Ser Gly Thr Ala Ser
 945 950 955 960
 Ser Pro Ser Pro Thr Thr Arg Met His Ser Gly Gln His Ser Thr Gln
 965 970 975
 Ala Gln Ser Thr Gly Gln Gly Gly Leu Ser Val Pro Ser Ser Leu Val
 980 985 990
 Cys His Ser Leu Cys Asp Pro Ala Ser Phe Pro Pro Gly Gly Ala Thr
 995 1000 1005
 Val Ser Ile Lys Pro Glu Pro Glu Asp Gln Glu Pro Asn Phe Ala Thr
 1010 1015 1020
 Ile Gly Leu Gln Asp Ile Thr Leu Asp Asp Val Asn Glu Ile Ile Gly
 1025 1030 1035 1040
 Arg Asp Met Ser Gln Ile Ser Val Ser Gln Ala Thr Glu Val Met Arg
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 1060 1065 1070
 Ser Ala His
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 <211> 1282
 <212> DNA
 <213> Mus musculus

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 cagaaagtag tgagaagccc aacgctgagg acatgacatc caaagactac tactttgact 180
 cctatgccca ctttggcatc cacgaggaga tgcgtaaagg tgaggtgcgc accctcacat 240
 accgcaactc catgtttcac aatcgccatc tcttcaaaga caaggtggtg ctggatgtgg 300
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 accatgtggc gaccatcatc aaggcaagg tggaggaggt ggagctgccc gtggagaagg 480
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 ccgtgctgca cgctcgggac aagtggctgg cacccgatgg cctcatctt ccagaccggg 600
 ccaccttgtt tggacagcc attgaggacc gacaataaa agactacaag atccacttgtt 660
 gggagaacgt gtatggcttt gatatgtccct gcattaaaga cgtggccatc aaggagccccc 720
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 acatattacac agtcaaggtg gaggacatc ccttcacatc ccccttctgc ctgcaagtga 840
 agaggaacga ctacgtgcac gcgctgggg cttaacttcaa catcgatcc acccgatccc 900

acaagaggac cggcttctcc accagtctg agtccccgt aCACACACTGG aAGCAGACTG 960
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 <213> Mus musculus

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 35 40 45
 Ser Lys Asp Tyr Tyr Phe Asp Ser Tyr Ala His Phe Gly Ile His Glu
 50 55 60
 Glu Met Leu Lys Asp Glu Val Arg Thr Leu Thr Tyr Arg Asn Ser Met
 65 70 75 80
 Phe His Asn Arg His Leu Phe Lys Asp Lys Val Val Leu Asp Val Gly
 85 90 95
 Ser Gly Thr Gly Ile Leu Cys Met Phe Ala Ala Lys Ala Gly Ala Arg
 100 105 110
 Lys Val Ile Gly Ile Glu Cys Ser Ser Ile Ser Asp Tyr Ala Val Lys
 115 120 125
 Ile Val Lys Ala Asn Lys Leu Asp His Val Val Thr Ile Ile Lys Gly
 130 135 140
 Lys Val Glu Glu Val Glu Leu Pro Val Glu Lys Val Asp Ile Ile Ile
 145 150 155 160
 Ser Glu Trp Met Gly Tyr Cys Leu Phe Tyr Glu Ser Met Leu Asn Thr
 165 170 175
 Val Leu His Ala Arg Asp Lys Trp Leu Ala Pro Asp Gly Leu Ile Phe
 180 185 190
 Pro Asp Arg Ala Thr Leu Tyr Val Thr Ala Ile Glu Asp Arg Gln Tyr
 195 200 205
 Lys Asp Tyr Lys Ile His Trp Trp Glu Asn Val Tyr Gly Phe Asp Met
 210 215 220
 Ser Cys Ile Lys Asp Val Ala Ile Lys Glu Pro Leu Val Asp Val Val
 225 230 235 240
 Asp Pro Lys Gln Leu Val Thr Asn Ala Cys Leu Ile Lys Glu Val Asp
 245 250 255
 Ile Tyr Thr Val Lys Val Glu Asp Leu Thr Phe Thr Ser Pro Phe Cys
 260 265 270
 Leu Gln Val Lys Arg Asn Asp Tyr Val His Ala Leu Val Ala Tyr Phe
 275 280 285
 Asn Ile Glu Phe Thr Arg Cys His Lys Arg Thr Gly Phe Ser Thr Ser
 290 295 300
 Pro Glu Ser Pro Tyr Thr His Trp Lys Gln Thr Val Phe Tyr Met Glu
 305 310 315 320
 Asp Tyr Leu Thr Val Lys Thr Gly Glu Ile Phe Gly Thr Ile Gly
 325 330 335
 Met Arg Pro Asn Ala Lys Asn Asn Arg Asp Leu Asp Phe Thr Ile Asp
 340 345 350
 Leu Asp Phe Lys Gly Gln Leu Cys Glu Leu Ser Cys Ser Thr Asp Tyr
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Arg Met Arg
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<213> Artificial Sequence

<220>
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<400> 11
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21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

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<400> 12
ugaauuaucu ggaauugaggt t

21

<210> 13
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<400> 13
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21

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<400> 14
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21

<210> 15
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<400> 15
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21

<210> 16
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<400> 16
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21

<210> 17
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auccagcacc accuugucut t

21

<210> 19
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<212> DNA
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<400> 19
gguggacaua aucaucagct t

21

<210> 20
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 Gly Ala Glu Gly Tyr Pro Pro Val Asp Gly Tyr Pro Ala Pro Asp Pro
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 Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala
 115 120 125

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 Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Ser Asn His Leu
 130 135 140

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Gln	His	His	Trp	Arg	Tyr	Gln	Ser	Gly	Lys	Trp	Val	Gln	Cys	Gly	Lys	
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Leu	Lys	Leu	Thr	Asn	Asn	Lys	Gly	Ala	Ser	Asn	Asn	Val	Thr	Gln	Met	
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Lys	Gly	Phe	Arg	Glu	Asn	Phe	Glu	Ser	Met	Tyr	Ala	Ser	Val	Asp	Thr	
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Tyr	Pro	Asp	Leu	Pro	Gly	Gln	Pro	Lys	Asp	Met	Ile	Ser	Gln	Pro	Tyr	
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Trp	Leu	Gly	Thr	Pro	Arg	Glu	His	Ser	Tyr	Glu	Ala	Glu	Phe	Arg	Ala	
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Val	Ser	Met	Lys	Pro	Thr	Leu	Leu	Pro	Ser	Ala	Pro	Gly	Pro	Thr	Val	
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Pro Tyr Tyr Arg	Gly Gln Asp Val	Leu Ala Pro Gly Ala Gly Trp Pro	
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Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu			
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Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro			
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Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg			
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Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg
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Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu
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Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro
465 470 475 480

Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg
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Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala
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Pro Ser Pro Phe Asp Lys Glu Thr Glu Gly Gln Phe Tyr Asn Tyr Phe
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Pro Asn
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